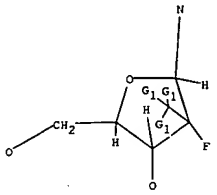
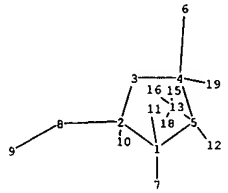
C:\Program Files\Stnexp\Queries\10608907.str





chain nodes :
7 8 9 10 11 12 13 15 16 18 19
ring nodes :
1 2 3 4 5 6
chain bonds :
1-7 1-11 2-8 2-10 4-6 4-19 5-12 5-13 8-9 13-15 13-16 13-18
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 1-7 2-3 3-4 4-5 4-6 13-15 13-16 13-18
exact bonds :
1-11 2-8 2-10 4-19 5-12 5-13 8-9

G1:H,F

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS
15:CLASS 16:CLASS 18:CLASS 19:CLASS

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sspta1600txm

PASSWORD:
LOGINID/PASSWORD REJECTED

The loginid and/or password sent to STN were invalid.
You either typed them incorrectly, or line noise may
have corrupted them.

Do you wish to retry the logon?
Enter choice (y/N):
Do you wish to use the same loginid and password?
Enter choice (y/N):
Enter new loginid (or press [Enter] for sspta1600txm):
Enter new password:

LOGINID:
LOGINID:ssspta1600txm

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 4	APR 04	STN AnaVist $500 visualization usage credit offered
NEWS 5	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 6	MAY 11	KOREAPAT updates resume
NEWS 7	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 8	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 9	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 10	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS 11	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS 12	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 13	JUl 11	CHEMSAFE reloaded and enhanced
NEWS 14	JUl 14	FSTA enhanced with Japanese patents
NEWS 15	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS 16	AUG 09	INSPEC enhanced with 1898-1968 archive

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items

McIntosh

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 NEWS IPC8      For general information regarding STN implementation of IPC 8
 NEWS X25       X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
specific topic.

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  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:59:47 ON 09 AUG 2006

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'REGISTRY' ENTERED AT 14:00:24 ON 09 AUG 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:     8 AUG 2006  HIGHEST RN 899769-93-8
DICTIONARY FILE UPDATES:    8 AUG 2006  HIGHEST RN 899769-93-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10608907.str

L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
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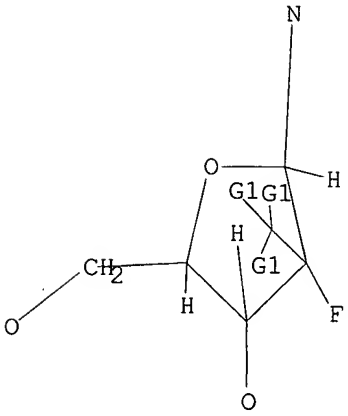
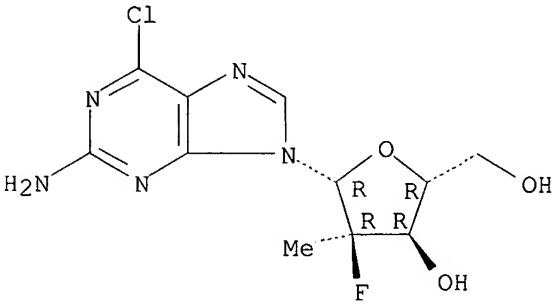


G1 H,F

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1 sss sam
SAMPLE SEARCH INITIATED 14:00:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        1 TO ITERATE

100.0% PROCESSED         1 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            1 TO       80
PROJECTED ANSWERS:               1 TO       80

L2            1 SEA SSS SAM L1

=> d scan l2

L2   1 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN   9H-Purin-2-amine, 6-chloro-9-[(2R)-2-deoxy-2-fluoro-2-methyl-β-D-
     erythro-pentofuranosyl]- (9CI)
MF   C11 H13 Cl F N5 O3
```

Absolute stereochemistry.



McIntosh

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s l1 full sss
FULL SEARCH INITIATED 14:01:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 26 TO ITERATE

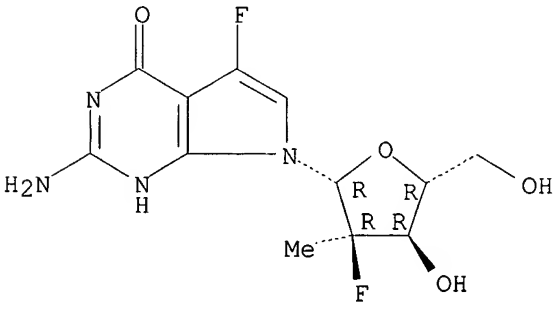
100.0% PROCESSED 26 ITERATIONS 26 ANSWERS
SEARCH TIME: 00.00.01

L3 26 SEA SSS FUL L1

=> d 1-26 l3

L3 ANSWER 1 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 892389-31-0 REGISTRY
ED Entered STN: 12 Jul 2006
CN INDEX NAME NOT YET ASSIGNED
FS STEREOSEARCH
MF C12 H14 F2 N4 O4
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

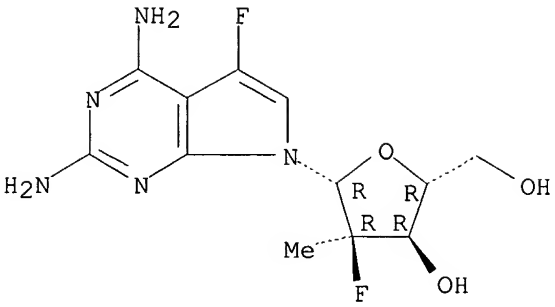


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 892389-29-6 REGISTRY
ED Entered STN: 12 Jul 2006
CN INDEX NAME NOT YET ASSIGNED
FS STEREOSEARCH
MF C12 H15 F2 N5 O3
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

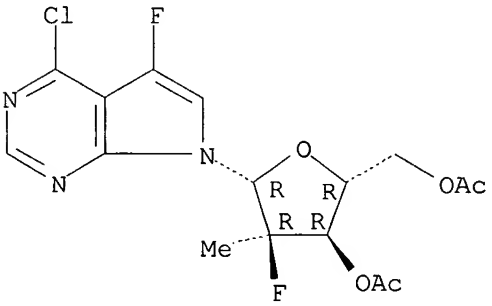


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 892389-27-4 REGISTRY
ED Entered STN: 12 Jul 2006
CN INDEX NAME NOT YET ASSIGNED
FS STEREOSEARCH
MF C16 H16 Cl F2 N3 O5
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

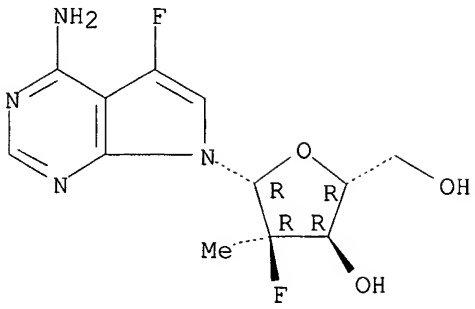


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 4 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 892389-10-5 REGISTRY
ED Entered STN: 12 Jul 2006
CN INDEX NAME NOT YET ASSIGNED
FS STEREOSEARCH
MF C12 H14 F2 N4 O3
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

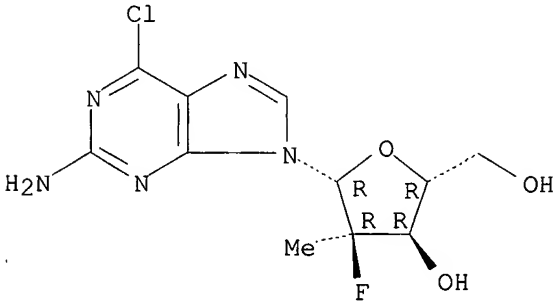


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 5 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 881881-89-6 REGISTRY
ED Entered STN: 26 Apr 2006
CN 9H-Purin-2-amine, 6-chloro-9-[(2R)-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H13 Cl F N5 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

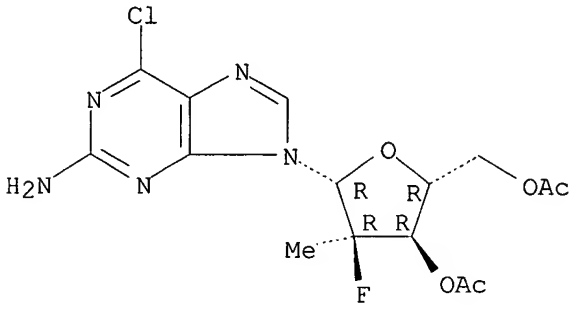
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 6 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 881881-88-5 REGISTRY
ED Entered STN: 26 Apr 2006
CN 9H-Purin-2-amine, 6-chloro-9-[(2R)-3,5-di-O-acetyl-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C15 H17 Cl F N5 O5
SR CA

McIntosh

LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

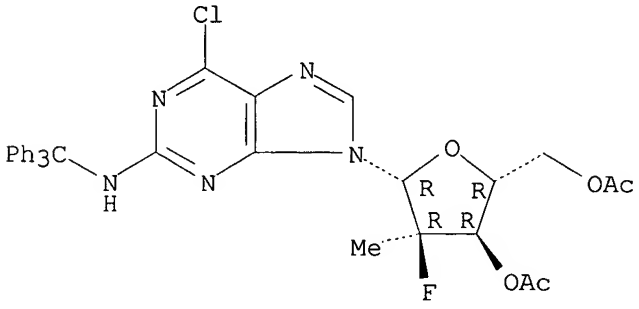


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 7 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 881881-83-0 REGISTRY
ED Entered STN: 26 Apr 2006
CN 9H-Purin-2-amine, 6-chloro-9-[(2R)-3,5-di-O-acetyl-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]-N-(triphenylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C34 H31 Cl F N5 O5
SR CA
LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.



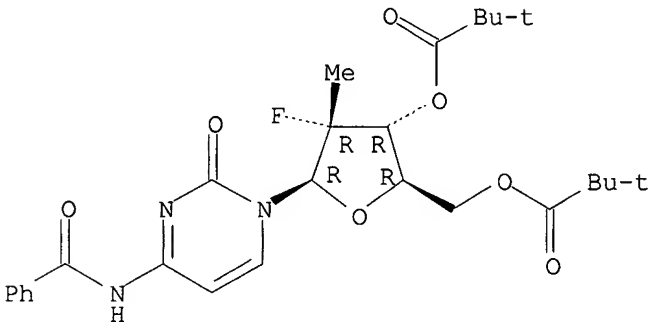
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 8 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 879551-07-2 REGISTRY
ED Entered STN: 07 Apr 2006
CN Cytidine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-bis(2,2-

dimethylpropanoate), (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H34 F N3 O7
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

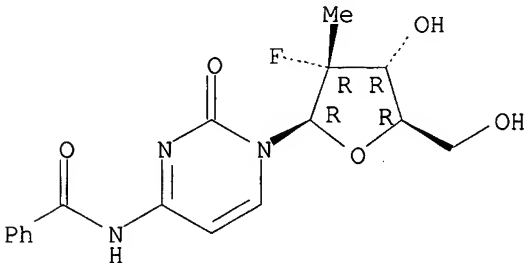


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 9 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 874638-98-9 REGISTRY
ED Entered STN: 20 Feb 2006
CN Cytidine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C17 H18 F N3 O5
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



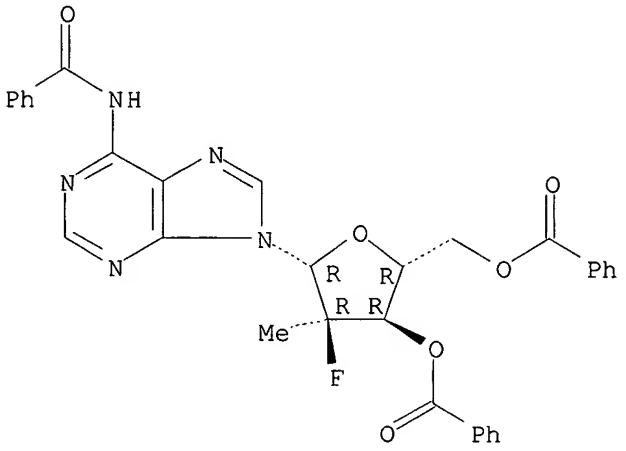
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 10 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN

RN 874638-97-8 REGISTRY
ED Entered STN: 20 Feb 2006
CN Adenosine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-dibenzoate, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C32 H26 F N5 O6
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

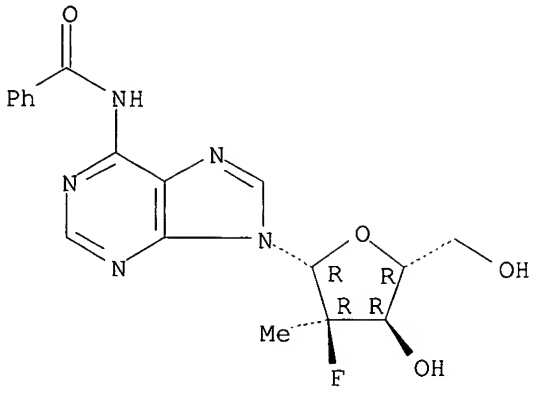


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 11 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 874638-95-6 REGISTRY
ED Entered STN: 20 Feb 2006
CN Adenosine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C18 H18 F N5 O4
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

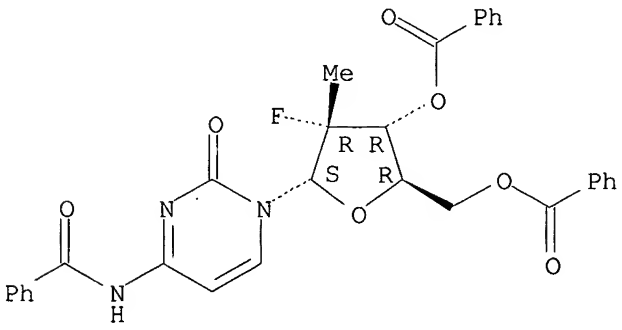


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 12 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 874638-94-5 REGISTRY
ED Entered STN: 20 Feb 2006
CN Benzamide, N-[1-[(2R)-3,5-di-O-benzoyl-2-deoxy-2-fluoro-2-methyl-α-D-erythro-pentofuranosyl]-1,2-dihydro-2-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H26 F N3 O7
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



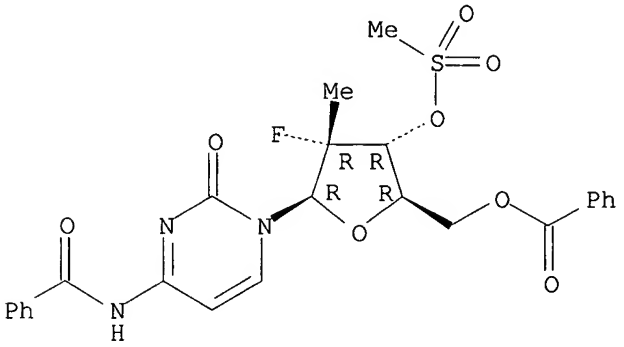
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 13 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 874638-82-1 REGISTRY
ED Entered STN: 20 Feb 2006
CN Benzamide, N-[1-[(2R)-5-O-benzoyl-2-deoxy-2-fluoro-2-methyl-3-O-

(methylsulfonyl)-β-D-erythro-pentofuranosyl]-1,2-dihydro-2-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H24 F N3 O8 S
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

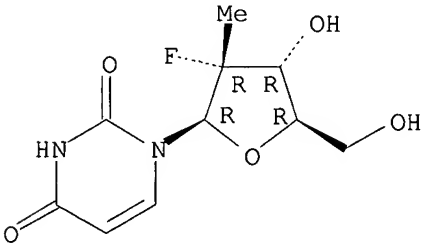


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 14 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 863329-66-2 REGISTRY
ED Entered STN: 16 Sep 2005
CN Uridine, 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C10 H13 F N2 O5
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry. Rotation (+).



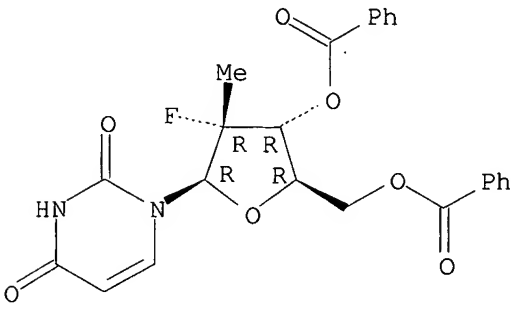
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 15 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 863329-65-1 REGISTRY

ED Entered STN: 16 Sep 2005
CN Uridine, 2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-dibenzoate, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H21 F N2 O7
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry. Rotation (+).

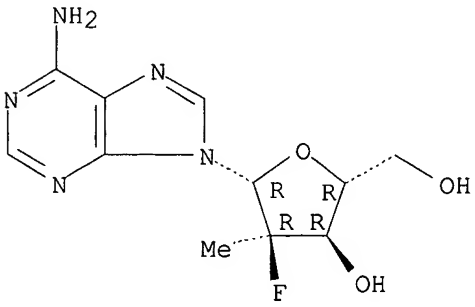


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 16 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 818374-78-6 REGISTRY
ED Entered STN: 21 Jan 2005
CN Adenosine, 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H14 F N5 O3
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

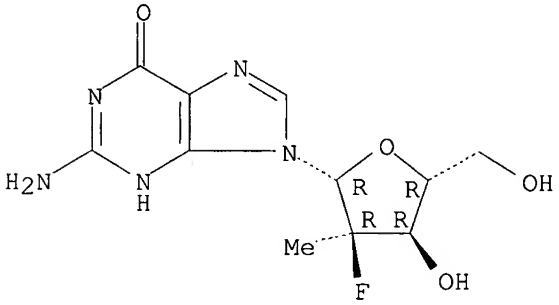


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 17 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 817204-45-8 REGISTRY
ED Entered STN: 20 Jan 2005
CN Guanosine, 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H14 F N5 O4
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

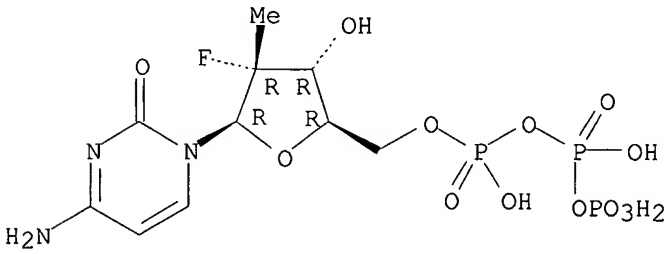


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 18 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 817204-44-7 REGISTRY
ED Entered STN: 20 Jan 2005
CN Cytidine 5'-(tetrahydrogen triphosphate), 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C10 H17 F N3 O13 P3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

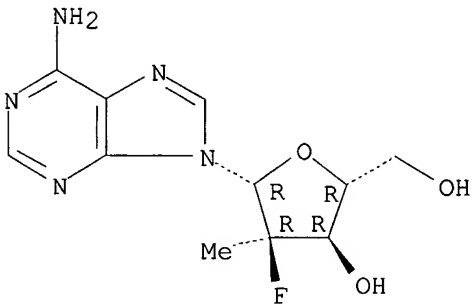


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 19 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 817204-43-6 REGISTRY
ED Entered STN: 20 Jan 2005
CN Adenosine, 2'-deoxy-2'-fluoro-2'-methyl-, monohydrochloride, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H14 F N5 O3 . Cl H
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (818374-78-6)

Absolute stereochemistry.



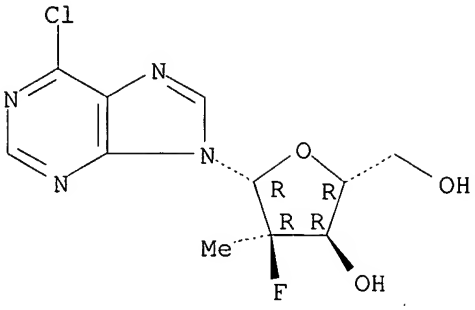
● HCl

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 20 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 817204-42-5 REGISTRY
ED Entered STN: 20 Jan 2005
CN 9H-Purine, 6-chloro-9-[(2R)-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H12 Cl F N4 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

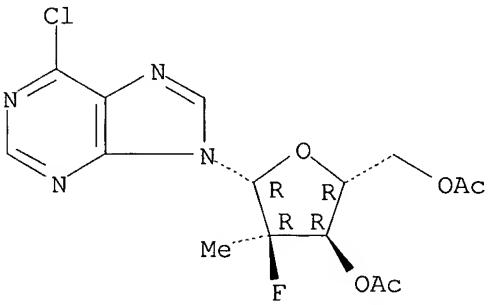


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 21 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 817204-41-4 REGISTRY
ED Entered STN: 20 Jan 2005
CN 9H-Purine, 6-chloro-9-[(2R)-3,5-di-O-acetyl-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C15 H16 Cl F N4 O5
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

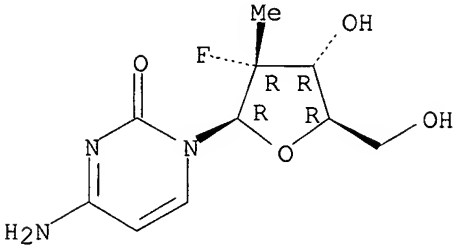
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 22 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 817204-38-9 REGISTRY
ED Entered STN: 20 Jan 2005
CN Cytidine, 2'-deoxy-2'-fluoro-2'-methyl-, monohydrochloride, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C10 H14 F N3 O4 . Cl H
SR CA
LC STN Files: CA, CAPLUS, PROUSDDR, TOXCENTER, USPATFULL

McIntosh

CRN (817204-33-4)

Absolute stereochemistry. Rotation (+).



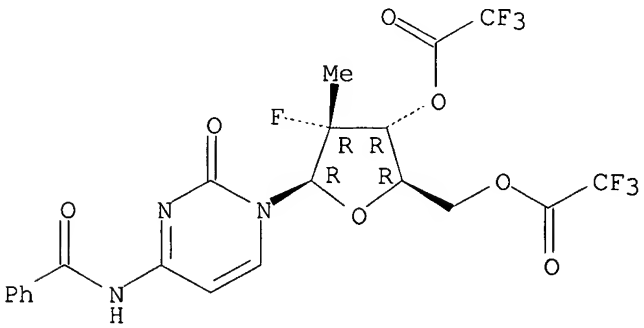
● HCl

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 23 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 817204-37-8 REGISTRY
ED Entered STN: 20 Jan 2005
CN Cytidine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-bis(trifluoroacetate), (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H16 F7 N3 O7
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



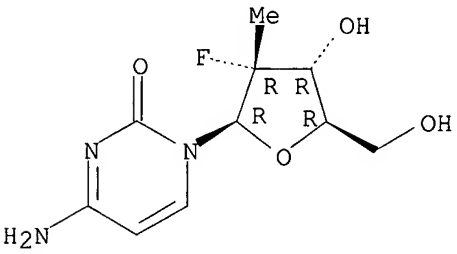
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 24 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 817204-33-4 REGISTRY

ED Entered STN: 20 Jan 2005
CN Cytidine, 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C10 H14 F N3 O4
CI COM
SR CA
LC STN Files: CA, CAPLUS, PROUSDDR, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (+).

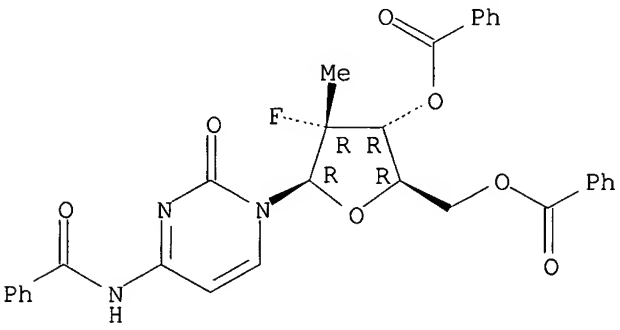


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 25 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 817204-32-3 REGISTRY
ED Entered STN: 20 Jan 2005
CN Cytidine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-dibenzoate, (2'R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H26 F N3 O7
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (+).

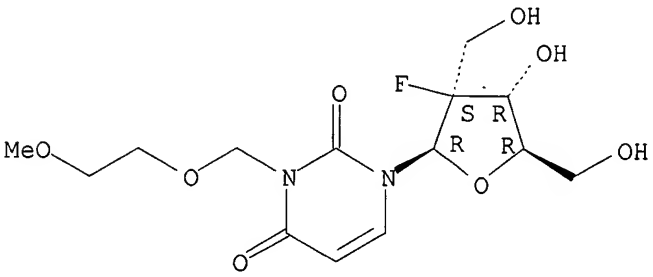


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 26 OF 26 REGISTRY COPYRIGHT 2006 ACS on STN
RN 510765-38-5 REGISTRY
ED Entered STN: 05 May 2003
CN Uridine, 2'-deoxy-2'-fluoro-2'-(hydroxymethyl)-3-[(2-methoxyethoxy)methyl]-, (2'S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C14 H21 F N2 O8
SR CA
LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	216.78	216.99

FILE 'CAPLUS' ENTERED AT 14:01:32 ON 09 AUG 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 9 Aug 2006 VOL 145 ISS 7
FILE LAST UPDATED: 8 Aug 2006 (20060808/ED)

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McIntosh

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=> d his

     (FILE 'HOME' ENTERED AT 13:59:47 ON 09 AUG 2006)

     FILE 'REGISTRY' ENTERED AT 14:00:24 ON 09 AUG 2006
L1             STRUCTURE UPLOADED
L2           1 S L1 SSS SAM
L3          26 S L1 FULL SSS

     FILE 'CAPLUS' ENTERED AT 14:01:32 ON 09 AUG 2006

=> s l3
L4           7 L3

=> d bib abs hitstr 1-7 l4

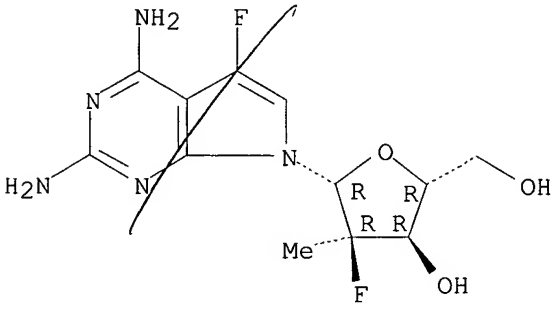
L4   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2006:603846  CAPLUS
DN   145:76603
TI   Fluorinated pyrrolo[2,3-d]pyrimidine nucleosides for the treatment of
     RNA-dependent RNA viral infection
IN   Maccoss, Malcolm; Olsen, David B.; Leone, Joseph; Durette, Philippe L.
PA   Merck & Co., Inc., USA
SO   PCT Int. Appl., 46 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   WO 2006065335        A2    20060622    WO 2005-US37224         20051017
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
             LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ,
             NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,
             SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
             YU, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
             GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
PRAI US 2004-620743P      P     20041021
     US 2005-651366P      P     20050209
AB   The present invention provides fluorinated pyrrolo[2,3, d]pyrimidine
     nucleoside compds. which are inhibitors of RNA-dependent RNA viral
     polymerase.  These compds. are inhibitors of RNA-dependent RNA viral
     replication and are useful for the treatment of RNA-dependent RNA viral
     infection.  They are particularly useful as precursors to inhibitors of
     hepatitis C virus (HCV) NS5B polymerase, as precursors to inhibitors of
     HCV replication, and/or for the treatment of hepatitis C infection.  The
     invention also describes pharmaceutical compns. containing such fluorinated
     pyrrolo[2,3- d]pyrimidine nucleoside alone or in combination with other
     agents active against RNA-dependent RNA viral infection, in particular HCV
     infection.  Also disclosed are methods of inhibiting RNA-dependent RNA
     polymerase, inhibiting RNA-dependent RNA viral replication, and/or
     treating RNA-dependent RNA viral infection with the fluorinated
```

pyrrolo[2,3- d]pyrimidine nucleoside of the present invention.

IT 892389-29-6 892389-31-0
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fluorinated pyrrolopyrimidine nucleosides for treatment of RNA-dependent RNA viral infection)

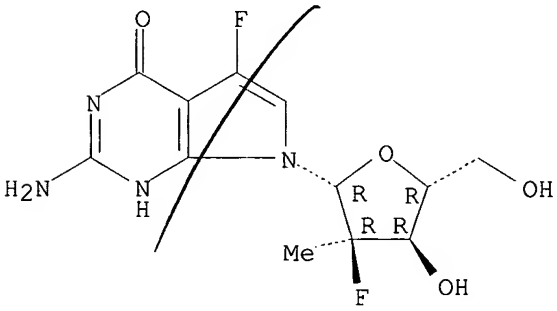
RN 892389-29-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



RN 892389-31-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

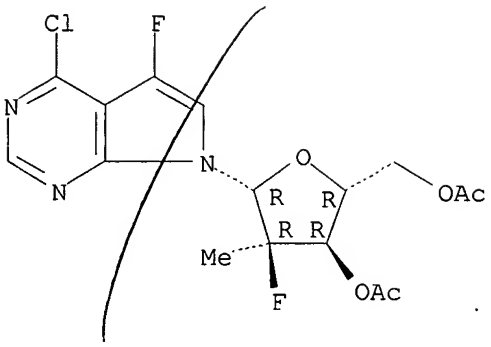
Absolute stereochemistry.



IT 892389-27-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(fluorinated pyrrolopyrimidine nucleosides for treatment of RNA-dependent RNA viral infection)

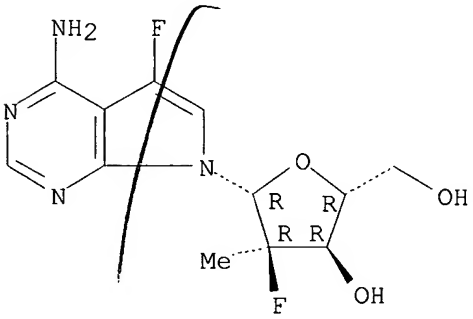
RN 892389-27-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



IT 892389-10-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(fluorinated pyrrolopyrimidine nucleosides for treatment of RNA-dependent RNA viral infection)
RN 892389-10-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:269477 CAPLUS
DN 144:312289
TI Preparation of alkyl-substituted 2-deoxy-2-fluoro-D-ribofuranosyl pyrimidine and purine nucleoside analogs via condensation of the lactone to nucleosides as potential antiviral agents
IN Chun, Byoung-Kwon; Wang, Peiyuan
PA Pharmasset, Inc., USA
SO PCT Int. Appl., 74 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006031725	A2	20060323	WO 2005-US32406	20050913

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

	US 2006122146	A1	20060608	US 2005-225425	20050913
PRAI	US 2004-609783P	P	20040914		
	US 2004-610035P	P	20040915		
	US 2005-666230P	P	20050329		

OS MARPAT 144:312289

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

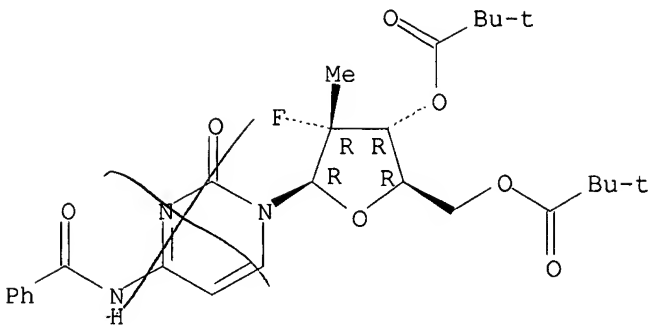
AB A process for preparing of 2-deoxy-2-fluoro-2-methyl-D-ribonolactones, I, wherein R1 and R2 can independently be H, CH3, acetyl, benzoyl, pivaloyl, 4-nitrobenzoyl, 3-nitrobenzoyl, 2-nitrobenzoyl, 4-chlorobenzoyl, 3-chlorobenzoyl, 2-chlorobenzoyl, 4-methylbenzoyl, 3-methylbenzoyl, 2-methylbenzoyl, 4-phenylbenzoyl, benzyl, 4-methoxybenzyl, trityl, trialkylsilyl, t-butyl-dialkylsilyl, t-butyldiphenylsilyl, TIPDS, THP, MOM, or MEM are prepared and used in the condensation to 2-deoxy-2-fluoro-D-ribofuranosyl pyrimidine and purine nucleoside analogs. Thus, 2-deoxy-2-fluoro-D-ribofuranosyl pyrimidine and purine nucleoside analogs II and III, wherein X is a halogen; Y is N or CH; Z is a halogen, hydroxyl, ether, thiol, thioether, (un)substituted amine or alkyl; R1' is alkyl, vinyl, ethynyl; R2' and R3' can be same or different H, alkyl, arylalkyl, acyl, cyclic acetal such as 2',3'-O-isopropylidene or 2',3-O-benzylidene, or 2',3'-cyclic carbonate; R4, R5, and R6 are independently H, halogen, hydroxyl, ether, thiol, thioether, N3, (un)substituted amine, (un)substituted amido, alkyl, halogenated alkyl, alkenyl, halogenated alkenyl, alkynyl, halogenated alkynyl, hydroxy alkyl, alkoxy are prepared and are potential anti-HCV agents. Specifically, IV was prepared in 88 % yield via condensation, alkylation and stereoselective fluorination reactions and can exhibit potential use as an anti-HCV agent.

IT 879551-07-2P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of alkyl-substituted 2-deoxy-2-fluoro-D-ribofuranosyl pyrimidine and purine nucleoside analogs via condensation of the lactone to nucleosides)

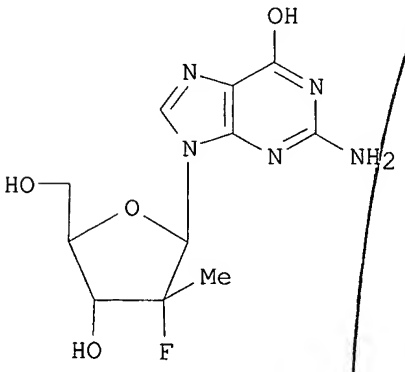
RN 879551-07-2 CAPLUS

CN Cytidine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-bis(2,2-dimethylpropanoate), (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:128527 CAPLUS
DN 144:370341
TI Synthesis and antiviral activity of 2'-deoxy-2'-fluoro-2'-C-methyl purine nucleosides as inhibitors of hepatitis C virus RNA replication
AU Clark, Jeremy L.; Mason, J. Christian; Hollecker, Laurent; Stuyver, Lieven J.; Tharnish, Phillip M.; McBrayer, Tamara R.; Otto, Michael J.; Furman, Phillip A.; Schinazi, Raymond F.; Watanabe, Kyoichi A.
CS Pharmasset, Inc., Tucker, GA, 30084, USA
SO Bioorganic & Medicinal Chemistry Letters (2006), 16(6), 1712-1715
CODEN: BMCLE8; ISSN: 0960-894X
PB Elsevier B.V.
DT Journal
LA English
OS CASREACT 144:370341
GI

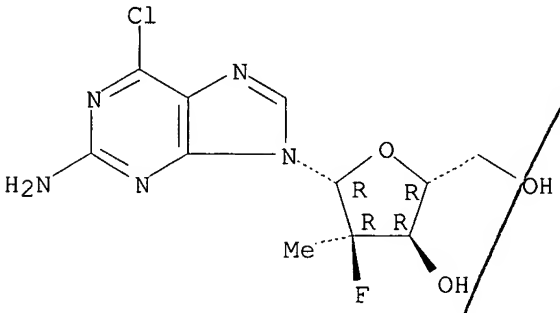


I

AB A series of purine nucleosides, e.g. I, containing the 2'-deoxy-2'-fluoro-2'-C-methylribofuranosyl moiety were synthesized and evaluated as potential inhibitors of the hepatitis C virus in vitro. Of the nucleosides that were synthesized, only those possessing a 2-amino group on the purine base reduced the levels of HCV RNA in a sub-genomic replicon assay.
IT 881881-89-6P
RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and antiviral activity of deoxyfluoromethyl purine

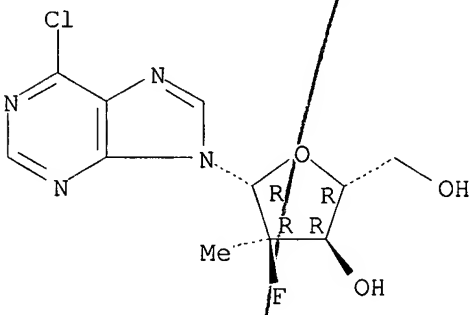
nucleosides as inhibitors of hepatitis C virus RNA replication)
RN 881881-89-6 CAPLUS
CN 9H-Purin-2-amine, 6-chloro-9-[(2R)-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



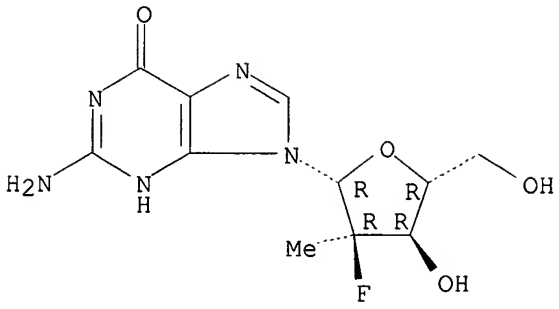
IT 817204-42-5P 817204-45-8P 818374-78-6P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and antiviral activity of deoxyfluoromethyl purine nucleosides as inhibitors of hepatitis C virus RNA replication)
RN 817204-42-5 CAPLUS
CN 9H-Purine, 6-chloro-9-[(2R)-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



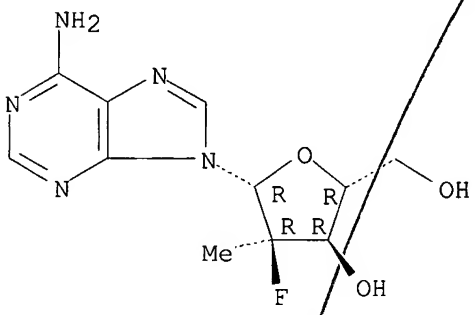
RN 817204-45-8 CAPLUS
CN Guanosine, 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



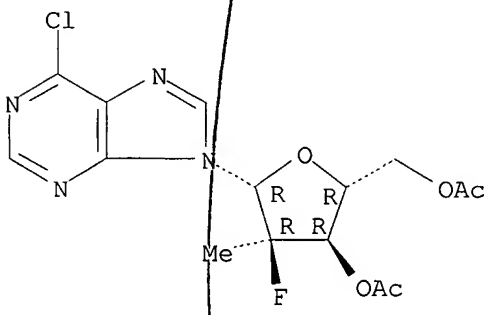
RN 818374-78-6 CAPLUS
CN Adenosine, 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 817204-41-4P 881881-83-0P 881881-88-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and antiviral activity of deoxyfluoromethyl purine nucleosides as inhibitors of hepatitis C virus RNA replication)
RN 817204-41-4 CAPLUS
CN 9H-Purine, 6-chloro-9-[(2R)-3,5-di-O-acetyl-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]- (9CI) (CA INDEX NAME)

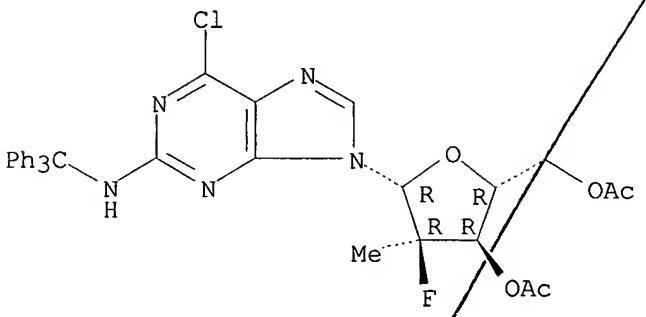
Absolute stereochemistry.



RN 881881-83-0 CAPLUS
CN 9H-Purin-2-amine, 6-chloro-9-[(2R)-3,5-di-O-acetyl-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]-N-(triphenylmethyl)- (9CI) (CA INDEX NAME)

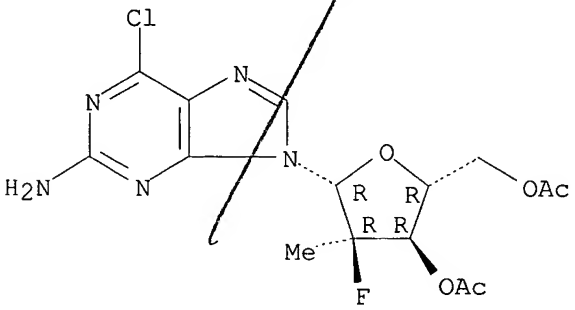
McIntosh

Absolute stereochemistry.



RN 881881-88-5 CAPLUS
CN 9H-Purin-2-amine, 6-chloro-9-[(2R)-3,5-di-O-acetyl-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:103884 CAPLUS
DN 144:171198
TI Preparation of alkyl-substituted 2-deoxy-2-fluoro-D-ribofuranosyl pyrimidine and purine nucleoside analogs via condensation of the lactone to nucleosides as potential antiviral agents
IN Wang, Peiyuan; Stec, Wojciech; Clark, Jeremy; Chun, Byoung-Kwon; Shi, Junxing; Du, Jinfa
PA Pharmasset, Inc., USA
SO PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006012440	A2	20060202	WO 2005-US25916	20050721

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,

NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM

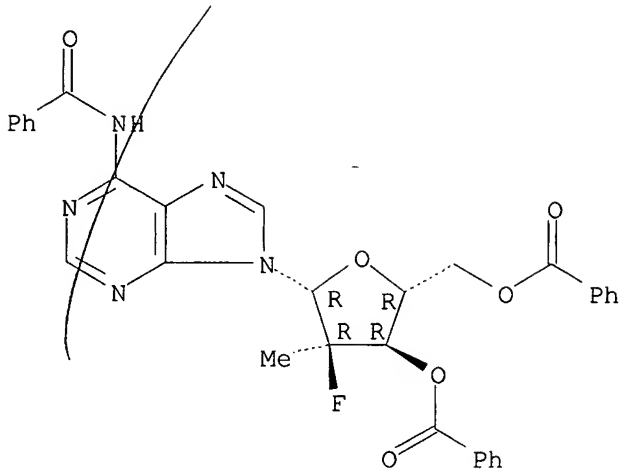
US 2005277598 A1 20051215 US 2005-118613 20050429
PRAI US 2004-589866P P 20040721
US 2004-608320P P 20040909
US 2004-566584P P 20040429
OS MARPAT 144:171198
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A process for preparing of 2-deoxy-2-fluoro-2-methyl-D-ribonolactones, I, wherein R1 and R2 can independently be H, CH3, acetyl, benzoyl, pivaloyl, 4-nitrobenzoyl, 3-nitrobenzoyl, 2-nitrobenzoyl, 4-chlorobenzoyl, 3-chlorobenzoyl, 2-chlorobenzoyl, 4-methylbenzoyl, 3-methylbenzoyl, 2-methylbenzoyl, 4-phenylbenzoyl, benzyl, 4-methoxybenzyl, trityl, trialkylsilyl, t-butyl-dialkylsilyl, t-butyldiphenylsilyl, TIPDS, THP, MOM, or MEM are prepared and used in the condensation to 2-deoxy-2-fluoro-D-ribofuranosyl pyrimidine and purine nucleoside analogs. Thus, 2-deoxy-2-fluoro-D-ribofuranosyl pyrimidine and purine nucleoside analogs II and III, wherein X is a halogen; Y is N or CH; Z is a halogen, hydroxyl, ether, thiol, thioether, (un)substituted amine or alkyl; R1' is alkyl, vinyl, ethynyl; R2' and R3' can be same or different H, alkyl, arylalkyl, acyl, cyclic acetal such as 2',3'-O-isopropylidene or 2',3-O-benzylidene, or 2',3'-cyclic carbonate; R4, R5, and R6 are independently H, halogen, hydroxyl, ether, thiol, thioether, N3, (un)substituted amine, (un)substituted amido, alkyl, halogenated alkyl, alkenyl, halogenated alkenyl, alkynyl, halogenated alkynyl, hydroxy alkyl, alkoxy are prepared and are potential anti-HCV agents. Specifically, IV was prepared (no yield, claimed) via condensation, alkylation and stereoselective fluorination reactions and can exhibit potential use as an anti-HCV agent.

IT 874638-97-8P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of alkyl-substituted 2-deoxy-2-fluoro-D-ribofuranosyl pyrimidine and purine nucleoside analogs via condensation of the lactone to nucleosides)
RN 874638-97-8 CAPLUS
CN Adenosine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-dibenzoate, (2'R)- (9CI) (CA INDEX NAME)

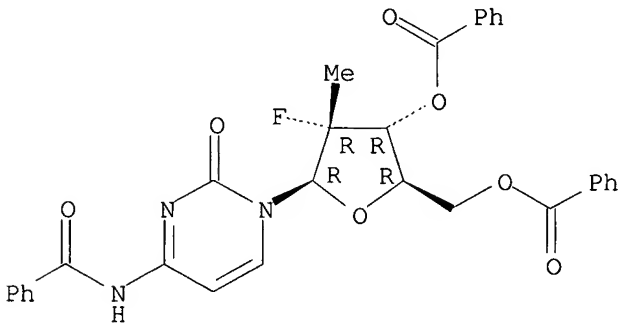
Absolute stereochemistry.



IT 817204-32-3P 817204-33-4P 874638-82-1P
874638-94-5P 874638-95-6P 874638-98-9P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of alkyl-substituted 2-deoxy-2-fluoro-D-ribofuranosyl pyrimidine and purine nucleoside analogs via condensation of the lactone to nucleosides)

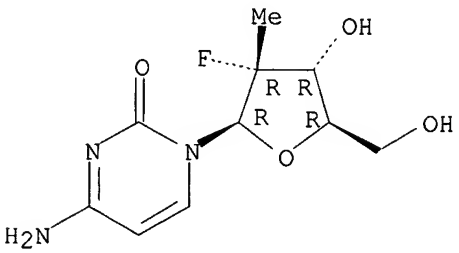
RN 817204-32-3 CAPLUS
CN Cytidine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-dibenzoate, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 817204-33-4 CAPLUS
CN Cytidine, 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)

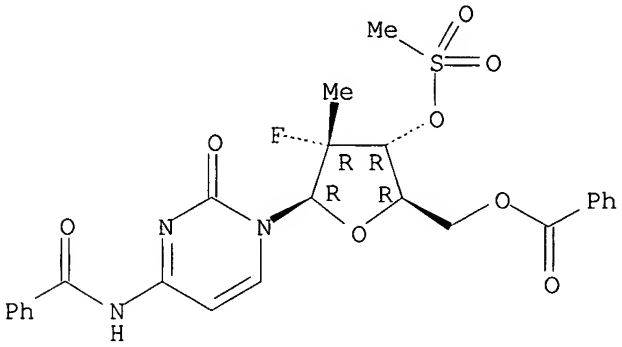
Absolute stereochemistry. Rotation (+).



McIntosh

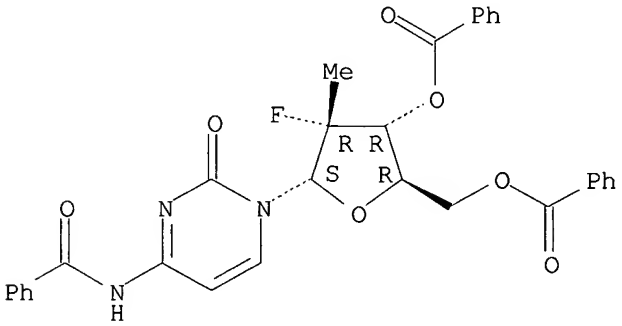
RN 874638-82-1 CAPLUS
CN Benzamide, N-[1-[(2R)-5-O-benzoyl-2-deoxy-2-fluoro-2-methyl-3-O-(methylsulfonyl)-β-D-erythro-pentofuranosyl]-1,2-dihydro-2-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



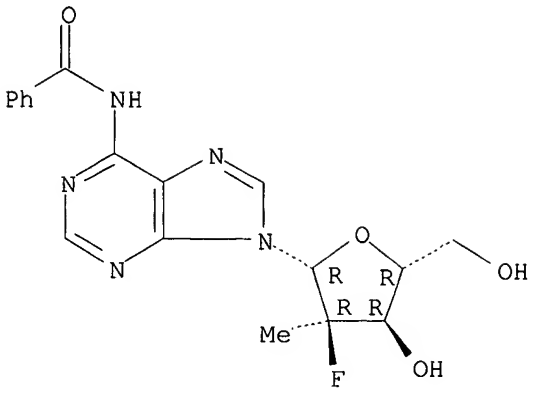
RN 874638-94-5 CAPLUS
CN Benzamide, N-[1-[(2R)-3,5-di-O-benzoyl-2-deoxy-2-fluoro-2-methyl-α-D-erythro-pentofuranosyl]-1,2-dihydro-2-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



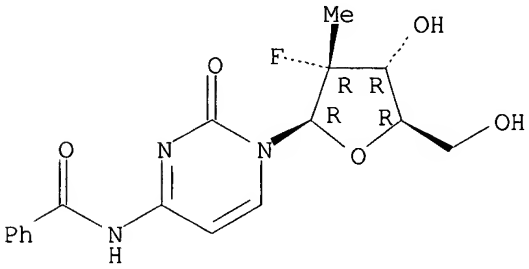
RN 874638-95-6 CAPLUS
CN Adenosine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 874638-98-9 CAPLUS
CN Cytidine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

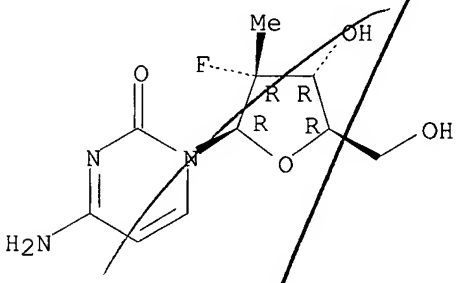


L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:648160 CAPLUS
DN 143:248607
TI Design, Synthesis, and Antiviral Activity of 2'-Deoxy-2'-fluoro-2'-C-methyl-cytidine, a Potent Inhibitor of Hepatitis C Virus Replication
AU Clark, Jeremy L.; Hollecker, Laurent; Mason, J. Christian; Stuyver, Lieven J.; Tharnish, Phillip M.; Lostia, Stefania; McBrayer, Tamara R.; Schinazi, Raymond F.; Watanabe, Kyoichi A.; Otto, Michael J.; Furman, Phillip A.; Stec, Wojciech J.; Patterson, Steven E.; Pankiewicz, Krzysztof W.
CS Pharmasset, Inc., Princeton, NJ, 08540, USA
SO Journal of Medicinal Chemistry (2005), 48(17), 5504-5508
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
AB The pyrimidine nucleoside- β-D-2'-deoxy-2'-fluoro-2'-C-methylcytidine (I) was designed as a hepatitis C virus RNA-dependent RNA polymerase (HCV RdRp) inhibitor. The title compound was obtained by a DAST fluorination of N4-benzoyl-1-(2-methyl-3,5-di-O-benzoyl-β-D-arabinofuranosyl)cytosine to provide N4-benzoyl-1-(2-fluoro-2-methyl-3,5-di-O-benzoyl-β-D-ribofuranosyl)cytosine. The protected 2'-C-methylcytidine was obtained as a byproduct from the DAST fluorination and allowed for the preparation of two biol. active compds. from a common precursor. Compound I and 2'-C-methylcytidine were assayed in a sub-genomic HCV replicon assay

system and found to be potent and selective inhibitors of HCV replication. Compd.I shows increased inhibitory activity in the HCV replicon assay compared to 2'-C-methylcytidine and low cellular toxicity.

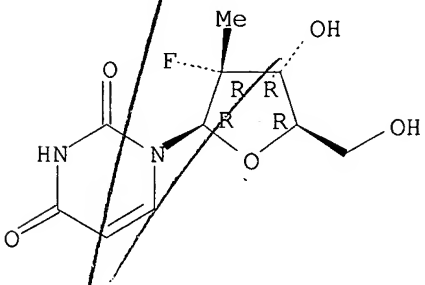
IT 817204-33-4P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(design, synthesis via fluorination, and antiviral activity of 2'-deoxy-2'-fluoro-2'-C-methyl-cytidine, a potent inhibitor of Hepatitis C virus replication)
RN 817204-33-4 CAPLUS
CN Cytidine, 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



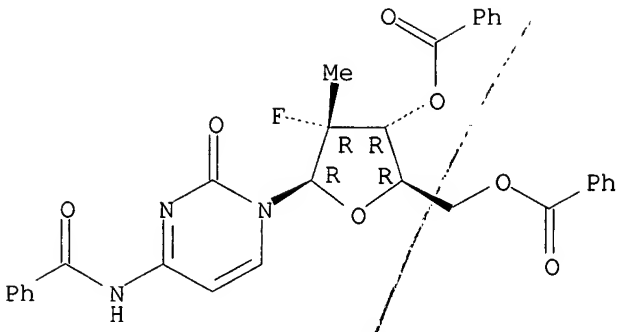
IT 863329-66-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(design, synthesis via fluorination, and antiviral activity of 2'-deoxy-2'-fluoro-2'-C-methyl-cytidine, a potent inhibitor of Hepatitis C virus replication)
RN 863329-66-2 CAPLUS
CN Uridine, 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



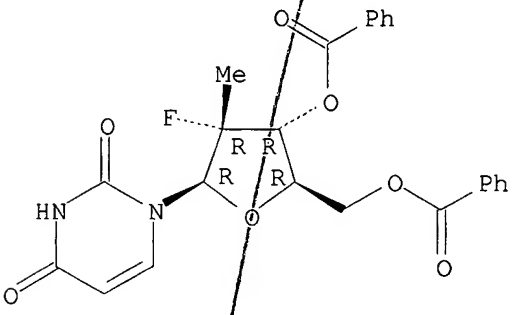
IT 817204-32-3P 863329-65-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(design, synthesis via fluorination, and antiviral activity of 2'-deoxy-2'-fluoro-2'-C-methyl-cytidine, a potent inhibitor of Hepatitis C virus replication)
RN 817204-32-3 CAPLUS
CN Cytidine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-dibenzoate, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



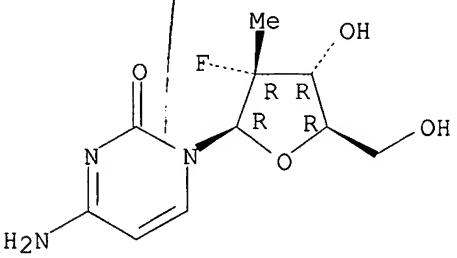
RN 863329-65-1 CAPLUS
CN Uridine, 2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-dibenzoate, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 817204-38-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(design, synthesis via fluorination, and antiviral activity of 2'-deoxy-2'-fluoro-2'-C-methyl-cytidine, a potent inhibitor of Hepatitis C virus replication)
RN 817204-38-9 CAPLUS
CN Cytidine, 2'-deoxy-2'-fluoro-2'-methyl-, monohydrochloride, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



● HCl

McIntosh

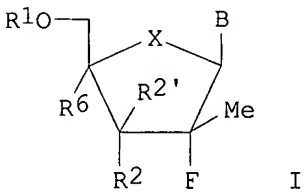
10/608,907

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:34765 CAPLUS
DN 142:94074
TI Preparation of modified fluorinated (2'R)-2'-deoxy-2'-fluoro-2'-C-methyl nucleoside analogs as antiviral agents
IN Clark, Jeremy
PA Pharmasset, Ltd., Barbados
SO PCT Int. Appl., 228 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005003147	A2	20050113	WO 2004-US12472	20040421
	WO 2005003147	A3	20050303		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004253860	A1	20050113	AU 2004-253860	20040421
	CA 2527657	AA	20050113	CA 2004-2527657	20040421
	US 2005009737	A1	20050113	US 2004-828753	20040421
	EP 1633766	A2	20060315	EP 2004-775900	20040421
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR				
PRAI	US 2003-474368P	P	20030530		
	WO 2004-US12472	W	20040421		

OS MARPAT 142:94074
GI



I

AB The disclosed invention provides nucleoside analogs I, wherein B is purine and pyrimidine nucleobase; X is O, S, CH2, Se, NH, N-alkyl, CHW, C(W)2; W is F, Cl, Br, iodo; R1 is H, phosphate, H-phosphonate, acyl, Ph, alkyl, carboxyalkylamino, sulfonate ester, peptide, amino acid, sugar reside; R2 and R2' are independently H, alkyl, alkenyl, alkynyl, vunyl, N3, CN,

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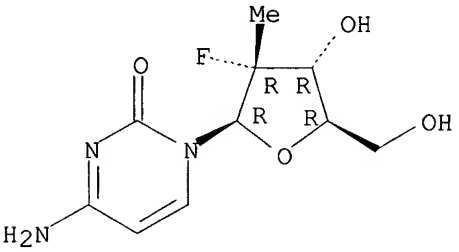
halogen, NO2, ester, alkoxy, thioalkyl, sulfoxide, sulfonyl; R6 is alkyl, CN, Me, OMe, OEt, CH2OH, CH2F, N3, CHCN, CH2N3, CH2NH2, CH2NHMe, CH2NMe2, alkylne; and methods of treating a Flaviviridae infection, including hepatitis C virus, West Nile Virus, yellow fever virus, and a rhinovirus infection in a host, including animals, and especially human, using a (2'R)-2'-deoxy-2'-fluoro-2'-C-Me nucleosides, or a pharmaceutically acceptable salt or prodrug thereof. Thus, (2'R)-2'-deoxy-2'-fluoro-2'-C-methylcytidine was prepared and tested as antiviral agent. The effects the nucleoside analogs tested on human bone marrow cells are reported. (2'R)-2'-deoxy-2'-fluoro-2'-C-methylcytidine shows activity against Rhinovirus, West Nile virus, Yellow Fever virus, and Dengue virus. Cytotoxicity and effect of nucleoside analogs on human bone marrow cells are reported.

IT 817204-33-4P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of modified fluorinated (2'R)-2'-deoxy-2'-fluoro-2'-C-Me nucleoside analogs as antiviral agents)

RN 817204-33-4 CAPLUS

CN Cytidine, 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

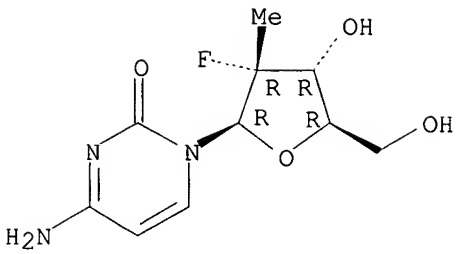


IT 817204-38-9P 817204-42-5P 817204-43-6P
817204-45-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of modified fluorinated (2'R)-2'-deoxy-2'-fluoro-2'-C-Me nucleoside analogs as antiviral agents)

RN 817204-38-9 CAPLUS

CN Cytidine, 2'-deoxy-2'-fluoro-2'-methyl-, monohydrochloride, (2'R)- (9CI) (CA INDEX NAME)

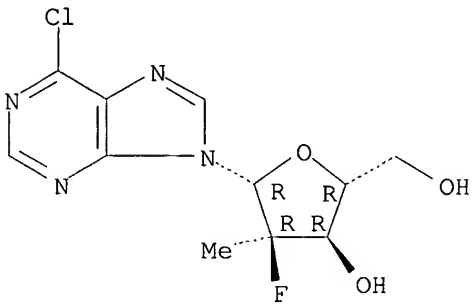
Absolute stereochemistry. Rotation (+).



● HCl

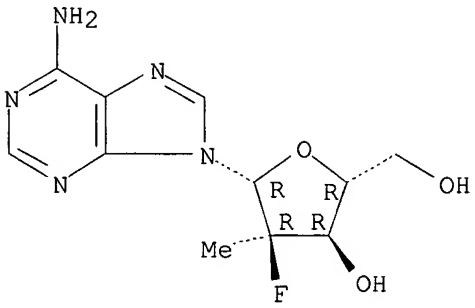
RN 817204-42-5 CAPLUS
CN 9H-Purine, 6-chloro-9-[(2R)-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 817204-43-6 CAPLUS
CN Adenosine, 2'-deoxy-2'-fluoro-2'-methyl-, monohydrochloride, (2'R)- (9CI) (CA INDEX NAME)

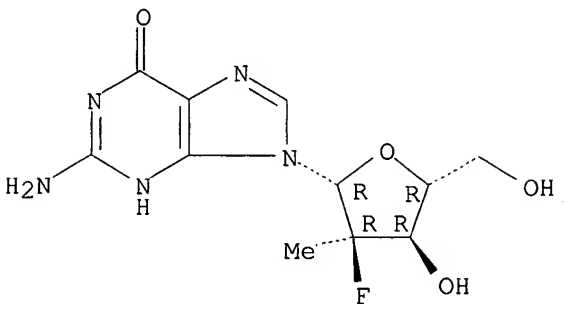
Absolute stereochemistry.



● HCl

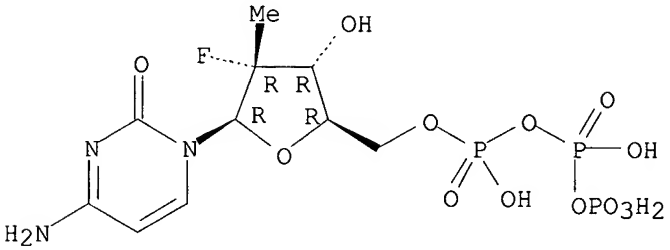
RN 817204-45-8 CAPLUS
CN Guanosine, 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



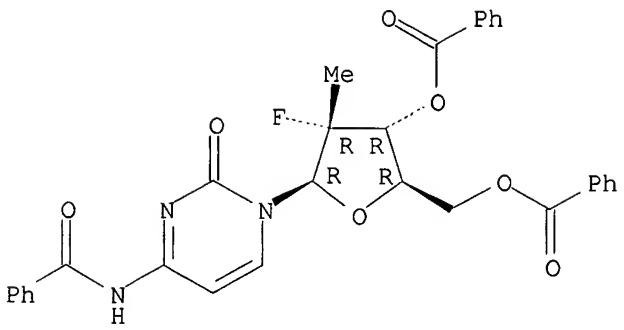
IT 817204-44-7
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of modified fluorinated (2'R)-2'-deoxy-2'-fluoro-2'-C-Me nucleoside analogs as antiviral agents)
RN 817204-44-7 CAPLUS
CN Cytidine 5'-(tetrahydrogen triphosphate), 2'-deoxy-2'-fluoro-2'-methyl-, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



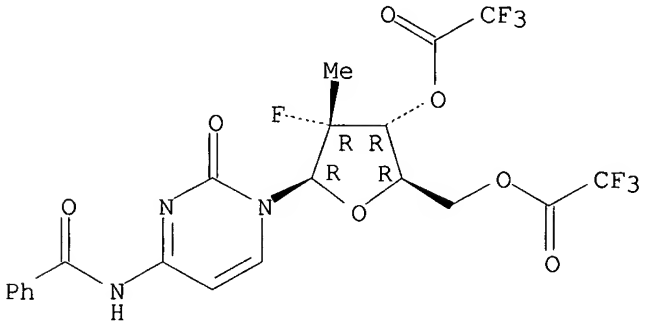
IT 817204-32-3P 817204-37-8P 817204-41-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of modified fluorinated (2'R)-2'-deoxy-2'-fluoro-2'-C-Me nucleoside analogs as antiviral agents)
RN 817204-32-3 CAPLUS
CN Cytidine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-dibenzoate, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



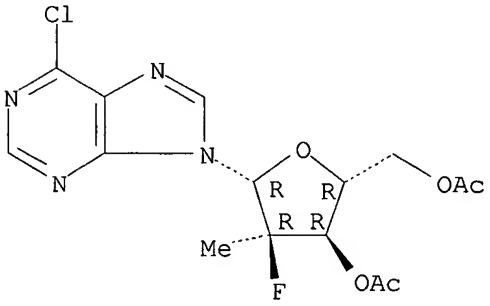
RN 817204-37-8 CAPLUS
CN Cytidine, N-benzoyl-2'-deoxy-2'-fluoro-2'-methyl-, 3',5'-bis(trifluoroacetate), (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 817204-41-4 CAPLUS
CN 9H-Purine, 6-chloro-9-[(2R)-3,5-di-O-acetyl-2-deoxy-2-fluoro-2-methyl-β-D-erythro-pentofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:114368 CAPLUS
DN 138:304462
TI Synthesis of 2'-C-β-Fluoromethyluridine
AU Dai, Qing; Piccirilli, Joseph A.

CS Howard Hughes Medical Institute, Department of Biochemistry & Molecular Biology, Department of Chemistry, The University of Chicago, Chicago, IL, 60637, USA

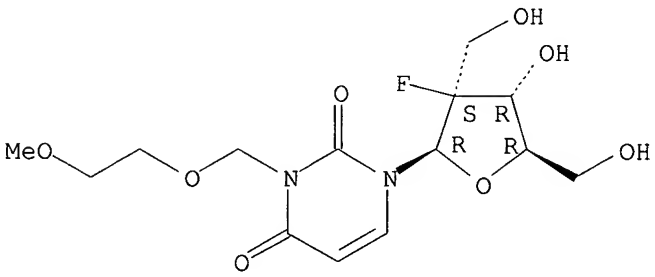
SO Organic Letters (2003), 5(6), 807-810
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 138:304462

AB 2'-C-β-Fluoromethyluridine represents both a potentially important biol. agent and a tool for biochem. anal. Here the authors describe the first synthesis of this compound starting from uridine. The key steps include protection of the uracil base with methoxyethoxymethyl (MEM) chloride, conversion to the corresponding 2'-C-α-epoxide, and regioselective opening of the oxirane ring with potassium fluoride/hydrogen fluoride. Subsequent acetylation of the 3'- and 5'-hydroxyl groups enables MEM removal using B-bromocatecholborane. Deacetylation generates the parent nucleoside, 2'-C-β-fluoromethyluridine.

IT 510765-38-5P
RL: BYP (Byproduct); PREP (Preparation)
(synthesis of C-β-fluoromethyluridine from uridine via uracil protection with MEM, epoxidn. and regioselective ring opening)

RN 510765-38-5 CAPLUS
CN Uridine, 2'-deoxy-2'-fluoro-2'-(hydroxymethyl)-3-[(2-methoxyethoxy)methyl]-, (2'S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 4	APR 04	STN AnaVist $500 visualization usage credit offered
NEWS 5	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 6	MAY 11	KOREAPAT updates resume
NEWS 7	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 8	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 9	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 10	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS 11	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS 12	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 13	JUl 11	CHEMSAFE reloaded and enhanced
NEWS 14	JUl 14	FSTA enhanced with Japanese patents
NEWS 15	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS 16	AUG 09	INSPEC enhanced with 1898-1968 archive

NEWS EXPRESS	JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.
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FILE 'HOME' ENTERED AT 15:30:39 ON 09 AUG 2006

=> file caplus

McIntosh

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 15:30:50 ON 09 AUG 2006
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FILE COVERS 1907 - 9 Aug 2006 VOL 145 ISS 7
FILE LAST UPDATED: 8 Aug 2006 (20060808/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

```
=> s us 5246924/pn
L1            1 US 5246924/PN
                (US5246924/PN)

=> sel rn
E1 THROUGH E12 ASSIGNED

=> file registry
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.49	2.70

FILE 'REGISTRY' ENTERED AT 15:31:18 ON 09 AUG 2006
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STRUCTURE FILE UPDATES: 8 AUG 2006 HIGHEST RN 899769-93-8
DICTIONARY FILE UPDATES: 8 AUG 2006 HIGHEST RN 899769-93-8

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and

predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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=> s e1-e12
             1 13191-15-6/BI
               (13191-15-6/RN)
             1 15176-29-1/BI
               (15176-29-1/RN)
             1 66097-68-5/BI
               (66097-68-5/RN)
             1 66341-18-2/BI
               (66341-18-2/RN)
             1 69123-90-6/BI
               (69123-90-6/RN)
             1 69123-98-4/BI
               (69123-98-4/RN)
             1 69256-17-3/BI
               (69256-17-3/RN)
             1 77222-61-8/BI
               (77222-61-8/RN)
             1 79551-89-6/BI
               (79551-89-6/RN)
             1 79570-63-1/BI
               (79570-63-1/RN)
             1 83546-42-3/BI
               (83546-42-3/RN)
             1 9012-90-2/BI
               (9012-90-2/RN)
L2          12 (13191-15-6/BI OR 15176-29-1/BI OR 66097-68-5/BI OR 66341-18-2/B
               I OR 69123-90-6/BI OR 69123-98-4/BI OR 69256-17-3/BI OR 77222-61
              -8/BI OR 79551-89-6/BI OR 79570-63-1/BI OR 83546-42-3/BI OR 9012-
              90-2/BI)

=> d scan

L2   12 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN   2(1H)-Pyrimidinone, 4-amino-1-[2-deoxy-2-fluoro-5-O-
     [hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-β-D-
     arabinofuranosyl]-5-iodo- (9CI)
MF   C9 H14 F I N3 O13 P3

Absolute stereochemistry.
```
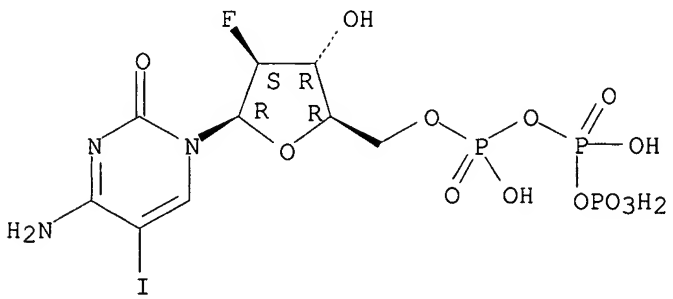
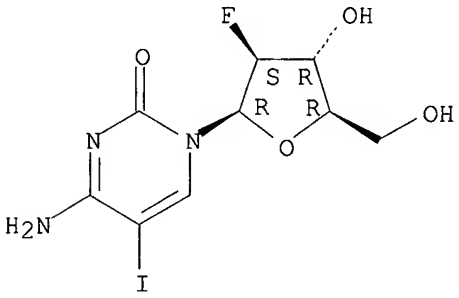



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):11

L2 12 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2(1H)-Pyrimidinone, 4-amino-1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-5-iodo- (9CI)
MF C9 H11 F I N3 O4
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

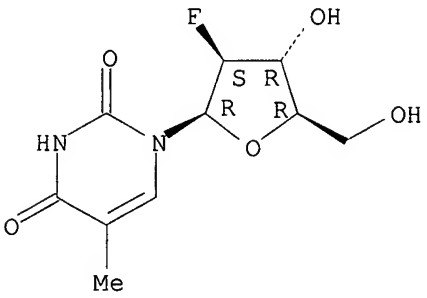
L2 12 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Nucleotidyltransferase, deoxyribonucleate (9CI)
MF Unspecified
CI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 12 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyl- (9CI)
MF C10 H13 F N2 O5

Absolute stereochemistry.

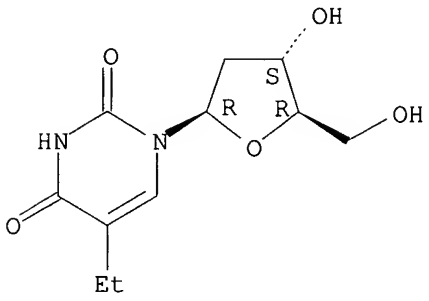


McIntosh

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 12 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Uridine, 2'-deoxy-5-ethyl- (8CI, 9CI)
MF C11 H16 N2 O5
CI COM

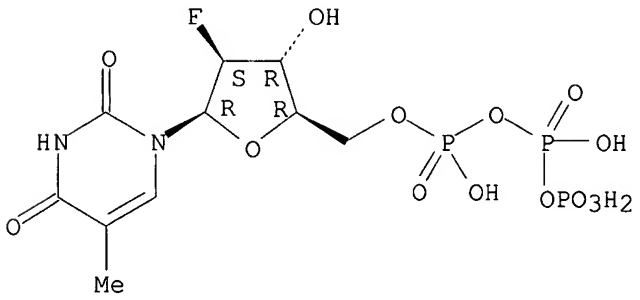
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 12 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2,4(1H,3H)-Pyrimidinedione, 1-[2-deoxy-2-fluoro-5-O-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-β-D-arabinofuranosyl]-5-methyl- (9CI)
MF C10 H16 F N2 O14 P3

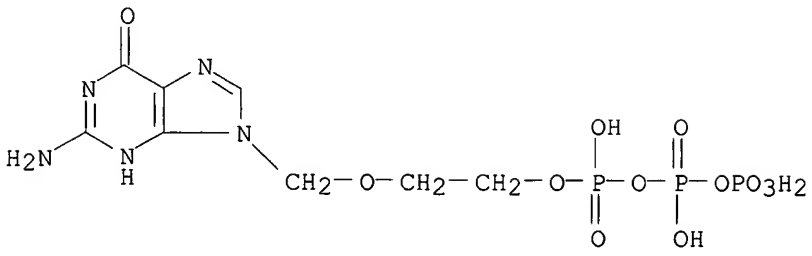
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 12 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Triphosphoric acid, P-[2-[(2-amino-1,6-dihydro-6-oxo-9H-purin-9-

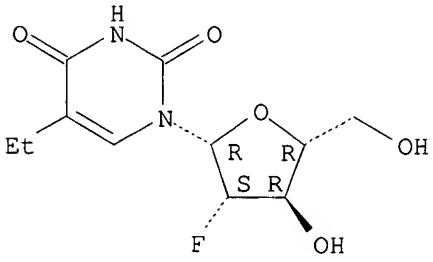
yl)methoxy]ethyl] ester (9CI)
MF C8 H14 N5 O12 P3
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 12 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-5-ethyl- (9CI)
MF C11 H15 F N2 O5

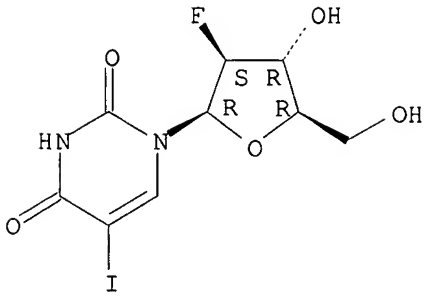
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 12 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-5-iodo- (9CI)
MF C9 H10 F I N2 O5
CI COM

Absolute stereochemistry.


F
OH
O
S R
R R
HN
N
O
OH
O
I